



NAME: _____

DATE: _____ SECTION: _____

UNIT ONE TEST: STUDY GUIDE

FIRST, study all of your notes, textbook chapters (1-9), notebook assignment pages, mini-quizzes, and homework/classwork. This study guide does NOT cover every topic on the test. You will need to study using other resources as well.

PART ONE: NICHE vs. MASS MARKETS

1. What is a niche market? Write a definition and two examples. _____

2. What is a mass market? Write a definition and two examples. _____

PART TWO: ENGINEERING, SCIENCE, AND TECHNOLOGY

1. What does an engineer do? _____

2. What does a scientist do? _____

3. What is technology? _____

PART THREE: ENGINEERING DESIGN PROCESS

1. What is the EDP? _____

PART FOUR: ENGINEERING DRAWING AND CALCULATIONS

1. Use isometric graph paper to draw an object isometrically. (Pick an object with all or mostly-all right angles.)
2. Use regular graph paper to draw the same object (a) orthographically, and (b) obliquely.
3. Use graph paper or plain paper to draw the same object in (a) 1-point perspective, and (b) 2-point perspective.
4. What was the scale of your orthographic drawing? _____
5. Calculate volume and surface area for your object. Show all work and include correct units.

PART FIVE: MANUFACTURING SYSTEMS

Make sure you understand the parts and processes of manufacturing systems. Make sure you can identify which type of process is being performed when you read a description (as in Mini-Quiz 4).